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in leaves with no bloom on either surface there is a decided tendency towards the accumulation of stomata in the lower epidermis; in leaves with bloom on the lower surface only, which is thus protected from wetting, the tendency is even stronger in the same direction; in those which have bloom only on the upper surface, there appears to be an accumulation of stomata on this surface, but the few species examined render this somewhat untrustworthy as a general conclusion; leaves having bloom on both surfaces, sometimes have more stomata above than below, and sometimes the reverse is the case.

Proceedings of the Club.

The regular monthly meeting was held at Columbia College Tuesday evening, May 11. Dr. Newberry presided, and twenty-six persons were present. Miss Louise M. Stabler was elected active member and Miss Mary C. Cook corresponding member. Mr. E. E. Sterns distributed the title-page and prospectus of a catalogue of the plants of Manhattan Island, requesting the aid of the members in making it as complete as possible. Professor Schrenk exhibited a pod from a cleistogamous flower of *Viola cucullata*, in which sixty-six seeds had sprouted and the seedlings had attained the height of nearly two inches; when he pulled it up they still remained attached to the pod. He also read a list of thirty-three wild plants in his garden, among them *Dodecatheon Meadia* and *Isopyrum binternatum*. Professor Day read a list of additions to the Flora of Westchester County. Mr. Poggenburg read a list of fifty-seven plants collected on the 23d and 24th of April, and Mrs. Britton reported *Nuphar advea* in bloom on the 25th. She also exhibited an acorn of the white oak with four cotyledons and two radicles. Dr. Britton exhibited a series of specimens of *Populus grandidentata* and *P. heterophylla*, and read some notes on the differences in the leaves and nomenclature. Mr. P. H. Dudley read the paper announced for the evening on the formation of ducts in the chestnut, *Castanea vulgaris*, var. *Americana* DC., comparing them by means of wood sections and photo-micrographs with those of the Hemlock, *Tsuga Canadensis*, Carr., and the Larch, *Larix Americana*, Michx.